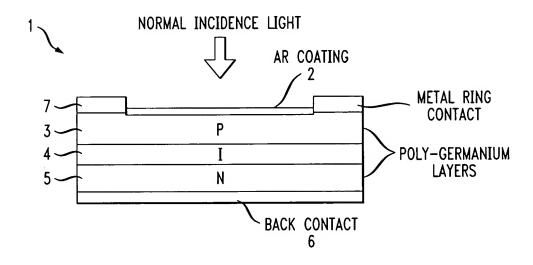
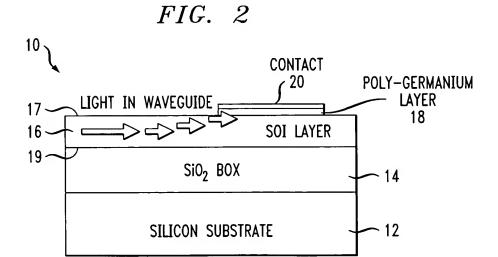
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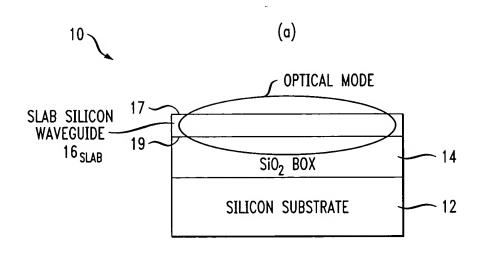
FIG. 1 PRIOR ART

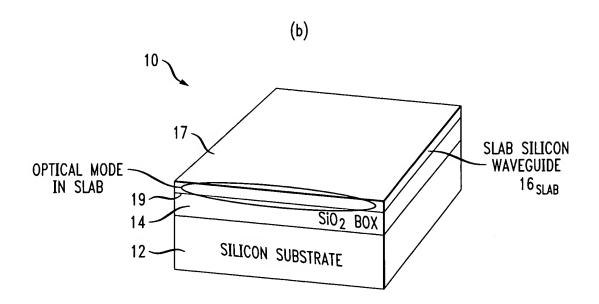




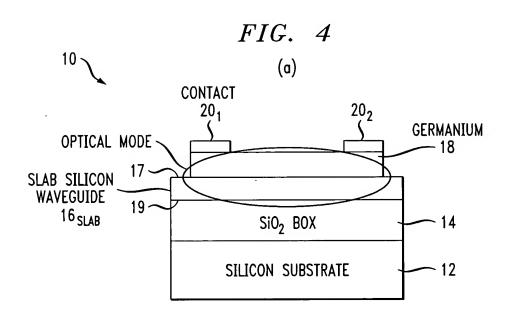
SIO-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 2/14

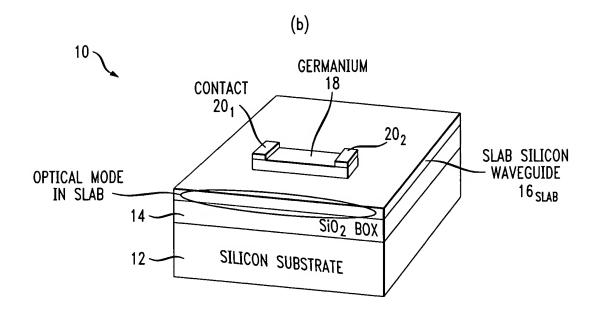
FIG. 3



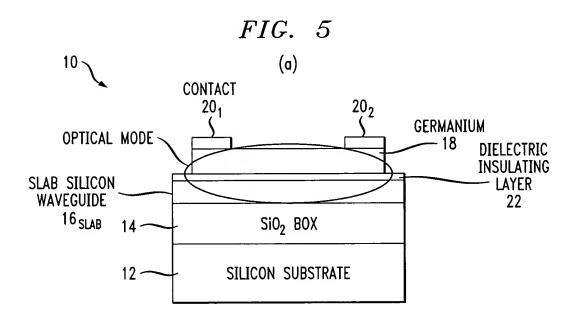


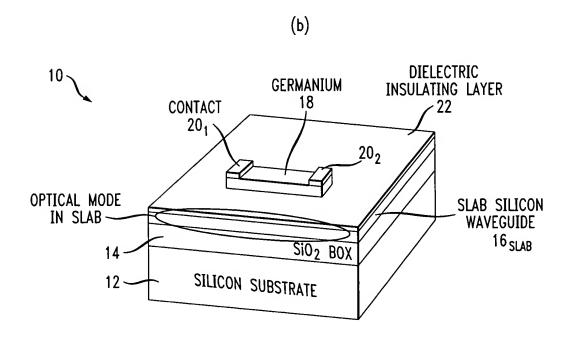
\$10-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 3/14





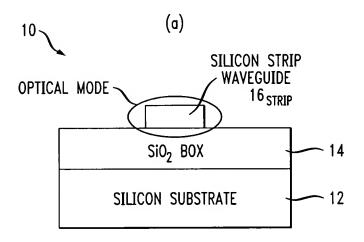
SIO-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 4/14

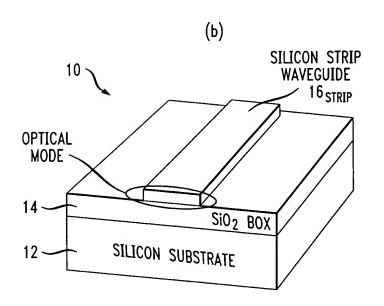




SIO-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 5/14

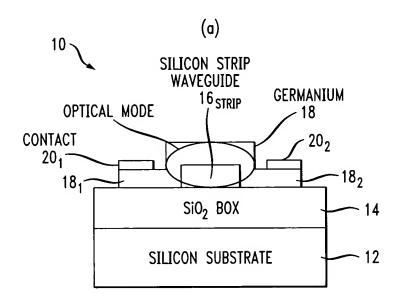
FIG. 6

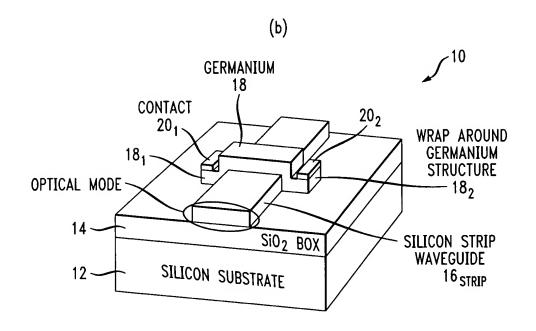




\$10-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 6/14

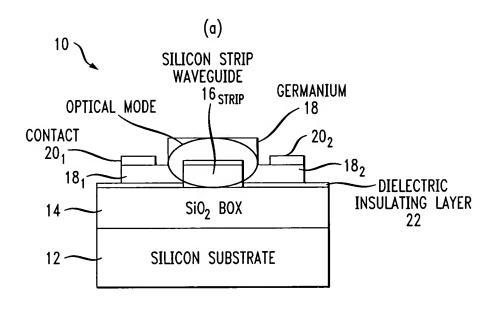
FIG. 7

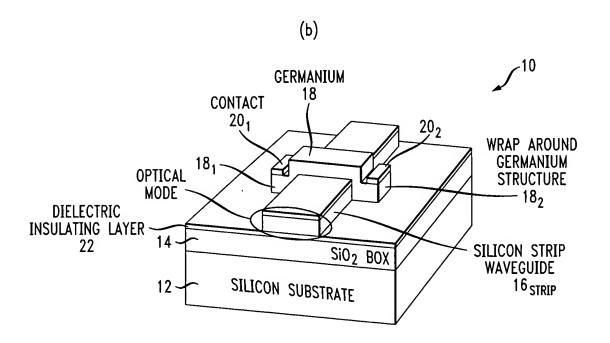




SIO-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 7/14

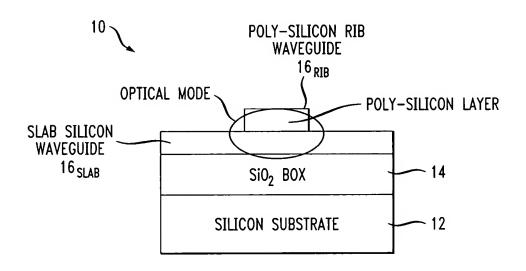
FIG. 8

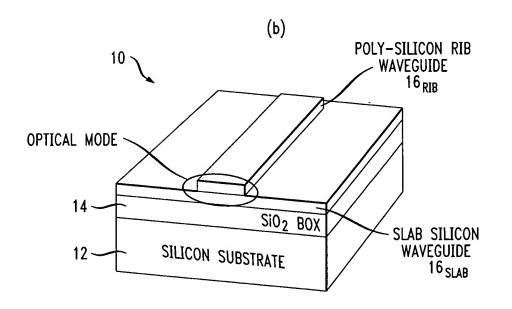




SIO-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 8/14

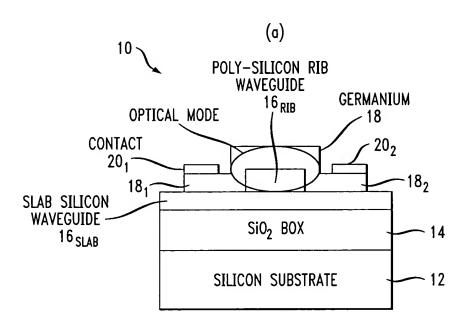
FIG. 9

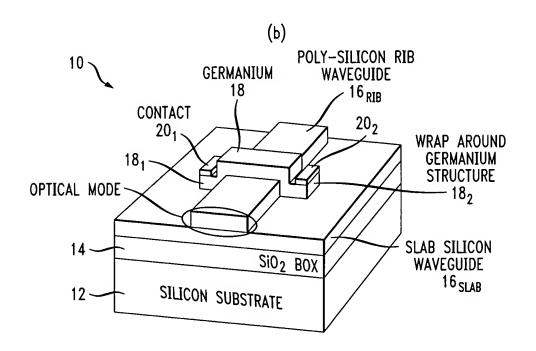




SIO-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET 9/14

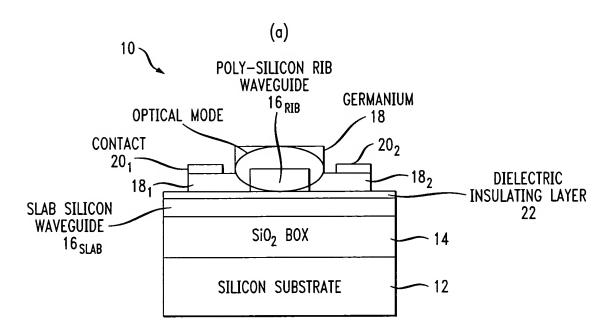
FIG. 10

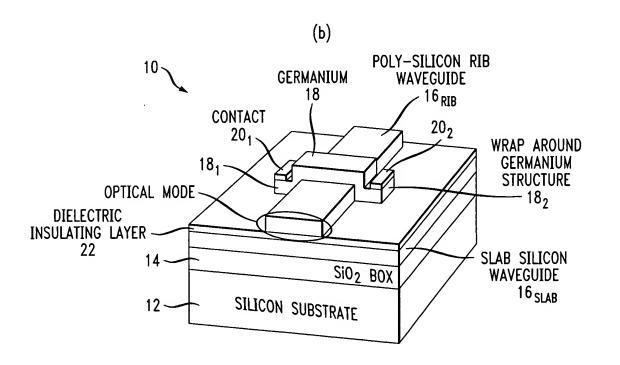




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FIG. 11





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FIG. 12

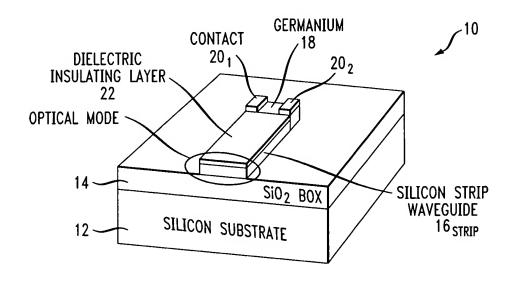
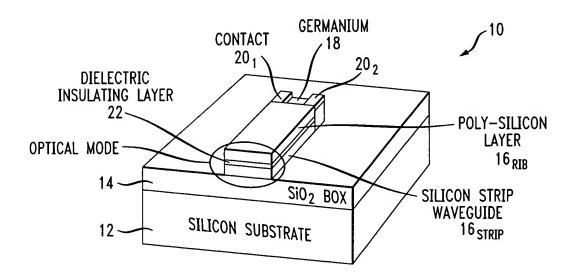


FIG. 13



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FIG. 14

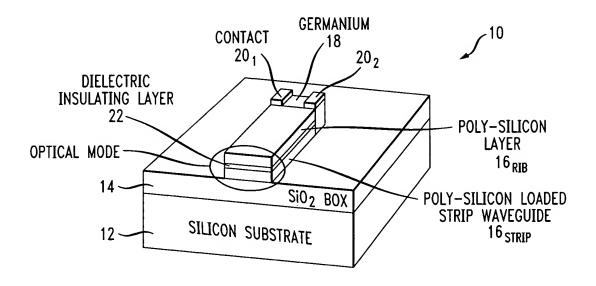
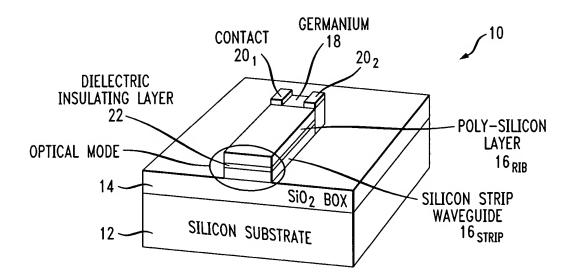


FIG. 15

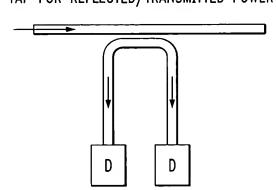


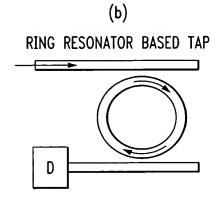
SIO-0105 Serial No.: 10/772,724 W. W. Koba (610) 346-7112 REPLACEMENT SHEET

FIG. 16

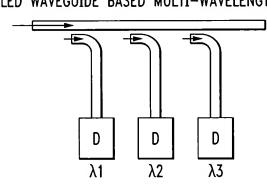
13/14

(a)
TAP FOR REFLECTED/TRANSMITTED POWER





(c)
COUPLED WAVEGUIDE BASED MULTI-WAVELENGTH TAP



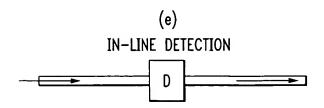
(d)

ETCHED CONCAVE GRATING

D \lambda1

OPTICAL D \lambda3

BEAM



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FIG. 17

